

**WHAT IS CLAIMED IS:**

1. An adaptive information compression system comprising:  
means for evaluating segments of a radio frequency signal to determine  
which segments are active, each segment representing a specific channel at a  
specific frequency;  
means, responsive to said means for evaluating, for reformatting the active  
segments into a contiguous order in a signal with a lower bandwidth than said  
radio frequency signal.
2. The system of claim 1, wherein said means for evaluating  
comprises:  
means for calculating a power value for each of said segments; and  
means for comparing the power of each of said segments to a  
predetermined threshold value.
3. The system of claim 1, further comprising:  
means for recreating said radio frequency signal by modulating each of  
said active segments on their respective specific frequencies.
4. A method for adaptive information compression comprising:  
evaluating segments of a radio frequency signal to determine which  
segments are active, each segment representing a specific channel at a specific  
frequency; and  
based on said evaluating, reformatting the active segments into a  
contiguous order in a signal with a lower bandwidth than said radio frequency  
signal.

5. The method of claim 4, wherein said step of reformatting further comprises:

calculating a power value for each of said segments; and  
comparing the power of each of said segments to a predetermined threshold  
5 value.

6. The method of claim 4, further comprising:  
recreating said radio frequency signal by modulating each of said active  
segments on their respective specific frequencies.